

OPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US 09/474,435

DATE: 04/18/2000
TIME: 13:41:23

Input Set: C:\CRF3\Datashold\09474435

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Kovalic, David K. Corrected Disket
2 McIninch, James
3 Wiegand, Roger C.
5 <120> TITLE OF INVENTION: ARABIDOPSIS THALIANA GENOME SEQUENCE AND USES THEREOF
7 <130> FILE REFERENCE: 38-21(15473)B
9 <140> CURRENT APPLICATION NUMBER: US 09/474,435
9 <141> CURRENT FILING DATE: 2000-02-23
9 <150> PRIOR APPLICATION NUMBER: USSN 60/089,524 1998-06-16; USSN 60/089,516 1998-06-16
W--> 22 <151> PRIOR FILING DATE: USSN 60/089,524 1998-06-16; USSN 60/089,516 1998-06-16

W--> 45 1512 PRICK FILING DATE: USPA/60/089,324 1998-08-16, USPA/60/089,316 1998-08-16, USPA/60/089,316 1998-08-16
35 <160> NUMBER OF SEQ ID NOS: 195836
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 576
39 <212> TYPE: DNA
40 <213> ORGANISM: Arabidopsis thaliana landsberg
42 <223> OTHER INFORMATION: unsure at all n locations
W--> 43 <400> SEQUENCE: 1
W--> 45 ttcaactcaga tattgaactg tncattaaacg agaaaaatcat ttttgccattt acagngatag 60
47 nccaaactgc tggactagg gtaagatacn gngatgtcct tctgaccctac ggatcttcca 120
49 ctgtcattga gatgtatata gtgcattgcac atgaaactcgg gaaaaaagttt cgtgtcttgg 180
51 tggtgtggattc tcgcaccaaag cttcaaggga agtactactgt tcgttagattt atcaaacggag 240
53 gcattaaactg tacatacactac ccatataactg cccatatacata tattcatgcac caagtccacca 300
55 aagtgttttt gggcgccctca tcagttttt ctaacggac agtttactca aggggttggca 360
57 ctgcctgtgt tgaatgggt gctaattgtt ccgcgttcc tggcttgg tggcttgg tggcttgg 420
59 ccttaaaatgtt ccatgagaag gtgcagggtt attattcaat atgctccaaat gagctcgggt 480
61 atccaaatgtc ttatccaaat gttccatggaa gagaacacat aaactacttta aatggcttga 540
W--> 63 ccaacaatgc anaactgaaat ttcttgcattt tgatot 576
W--> *insert this mandat numeri when displaying*

insert this mandatory numeric
do not list
ons) <220> when displaying 22217, filing dates
tgcattt acagcgtatag 60 <2227> in 1507 section -
gacctac ggatcttcca 120
aaatgtt cgtgtcttgg 180 or
tagattt atccaaacgag 240 <2237> list (one per line)
catgcac caagtccacca 300
ttacttca agggttggca 360
gttttgc tggtcgaaag 420
ctccaaat gagctcggtg 480
ctacttta aatggcttga 540
576
only the prior
applicator
number;

ccca aagccttatct 60
atg agtaaggaac 120
tct cctactcagg 180
ttt cgtgtatcgg 240
aca atatgtaaag 300
tct tatggtagtg 360
tct gaggtttgtc 420
gtt ttgttgttgg 480
gaa tgggaaacat 540
atg aaagatgtac 600
tgt agttagtgtatg 660
661

→ (220)
same error
as above

do not list
application
numbers in
(151) section -
list (one per
line) only the
prior application
dates

RAW SEQUENCE LISTING
PATENT APPLICATION: US 09/474,435

DATE: 04/18/2000
TIME: 13:41:23

Input Set: C:\CRF3\Datahold\09474435

104 <400> SEQUENCE: 3

106 atcccaaatt tgatgaatat ttctctgctc cttaggcttgc tggatgcgttgc 60
 108 gatgtgttgc cccactcaag gttttgttgc tgcgttgcgttgc acttgcgttgc 120
 110 ggcgttgcgttgc tggatgcgttgc atccatccatccatccatccatccatcc 180
 112 ttttgcgttgc tggatgcgttgc atccatccatccatccatccatccatcc 240
 114 ctttgcgttgc tggatgcgttgc atccatccatccatccatccatccatcc 300
 116 tggcaagatgc gcaatgaag tgcgtatgc cccgttgcgttgc ggttntgac tacatattat 360
 118 tggatgcgttgc ttttgcgttgc tggatgcgttgc atccatccatccatcc 420
 120 ttttgcgttgc ttttgcgttgc tggatgcgttgc atccatccatccatcc 480
 122 gtaacttaca ag 492
 125 <210> SEQ ID NO: 4
 126 <211> LENGTH: 7290
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Arabidopsis thaliana landsberg
 130 <400> SEQUENCE: 4
 132 gaagatgtca atggaccctt aatcaatttcc cccatcatcc aaagatctcc atttccaaga 60
 134 ttgggttctgc aggcatcttca ttctctgtc taatgttgc ctgttgcgttgc 120
 136 ttaaacatttgc atggatccatccatccatccatccatccatccatccatcc 180
 138 gcaatgttgc cccatcatccatccatccatccatccatccatccatccatcc 240
 140 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 300
 142 ctttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 360
 144 gacttacttgc cccatcatccatccatccatccatccatccatccatcc 420
 146 atagacttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 480
 148 atggatgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 540
 150 gccatgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 600
 152 tcgttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 660
 154 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 720
 156 aacttcttcaatccatccatccatccatccatccatccatccatccatcc 780
 158 agcttcaatccatccatccatccatccatccatccatccatccatcc 840
 160 tagtttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 900
 162 aatccaaatccatccatccatccatccatccatccatccatccatcc 960
 164 agcataacatccatccatccatccatccatccatccatccatccatcc 1020
 166 caaacatccatccatccatccatccatccatccatccatccatcc 1080
 168 gatgttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1140
 170 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1200
 172 aacaaatccatccatccatccatccatccatccatccatccatcc 1260
 174 aatccatccatccatccatccatccatccatccatccatccatcc 1320
 176 catgttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1380
 178 acagacttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1440
 180 acaagatccatccatccatccatccatccatccatccatccatcc 1500
 182 ctttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1560
 184 gggatgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1620
 186 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1680
 188 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1740
 190 ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1800
 192 ctttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc 1860
 194 acaaaaaatccatccatccatccatccatccatccatccatcc 1920
 196 aatccatccatccatccatccatccatccatccatccatccatcc 1980

RAW SEQUENCE LISTING DATE: 04/18/2000
PATENT APPLICATION: US 09/474,435 TIME: 13:41:23

Input Set: C:\CRF3\Datahold\09474435

198	cgaagtattt	ggacgggtta	agaactgtac	tcgaccagg	tggtcgagt	agaggcag	2040
200	tgaatagtc	gagttttctt	ttcttccttg	tgctcgagt	tctggtttag	tgcagaatga	2100
202	aaaggactct	gaagcttgc	atcgatgtat	cagtgcgat	gtgtgtatgg	gataactcgac	2160
204	ctcttagtag	atgttagtgg	tcggatgttt	gtctgtatgt	ggaggttggaa	acactcgacc	2220
206	tcatggtcga	gtaaagtgtat	cgagtggcgg	tctggatgt	gagacgagggg	cactcggct	2280
208	cgggtcgg	tggtgagggt	aagtgggtat	gtctctactt	cgacccggcg	gtcgagtgtat	2340
210	ctcttggat	cttggatgtc	ctactcgacc	tctgggtcga	gtgatttatac	atgtacgggt	2400
212	ccggcttctc	catagatgtc	gtcaacagot	ccaaatacc	ttaaaatcaac	gcaaatatgc	2460
214	aacatgcatg	caaaaactatc	ctaaacatgc	aaagtgtatgt	caaatgtatgt	gaaatggat	2520
216	gaaaacatgt	tgatgtatgt	taaaatgtat	gacaatgtgt	tgctcaaaac	atgcaaaaat	2580
218	cacacttatac	accaaatgtat	tacccctttt	gcaaaatctt	cctccactct	cttgcgagca	2640
220	gagaacatc	atgttgcgt	caactagaaac	taggttcaact	aaccaattgg	atgtacaaat	2700
222	agaatcaacta	cttcgtatgaa	tcctgtacag	aggcacttcg	tttgcatttt	tcttcattca	2760
224	ctcaacgtcc	acccgaatcc	cttagagcag	cttggcttccg	tatcagatct	tattagctgt	2820
226	aatgtccccca	acatgttgg	caagagggcc	aactcattaa	tatattttctac	agagggtat	2880
228	ccaaacgcata	ccggactcaa	cttgcgtacg	cgagctactgt	ataatccatg	acaagaacta	2940
230	cttagtaaagc	attactccctc	attaccatgt	ctttaactat	tctttcgaca	caggaagggt	3000
232	acacaaaaaa	aagaattttca	gtcgatgtat	ccacccggaa	caaagagact	cttggtttcag	3060
234	taatttctgc	tcctatccaa	gccccccccc	ccaccccttc	tagacagcag	acttgcattcc	3120
236	atgttgcggc	agattttgcg	gtgcaccaaaa	aagctcgagg	ataatgttgc	tagcaaatat	3180
238	gatttctctt	atacagatct	aaatagcagc	attgacaatc	tacgtctca	tataacggaa	3240
240	cccttacccata	catttcggcct	tatcaatgc	gtcaccattac	gcaatggaaat	gcaactgtat	3300
242	ccaaatacttc	agcgcgaaacg	tctcgatcg	ccttcatttt	tatcagggtc	agaaaaaaagac	3360
244	tcaggctcgat	tgacaccaat	cactcttgc	gactctgttt	tgcccttgc	gatggaaatc	3420
246	gacaatttcg	tggaggagga	ggaaattttt	cccgatgttg	tcgatcgaca	cccagctcg	3480
248	tcagacatgt	tgcaccaatgt	actaaaaaaat	aagtgcggaa	atcgccaaat	tcctttcccc	3540
250	aaaggcttca	aaaaaaaacaa	ataaggctta	gtatgtgtca	gtatgcaggc	tatgtatgtat	3600
252	aagggttattt	tttagatgtgc	tctagtgtaa	gctatccatc	tcttcggcc	aataaaaggg	3660
254	tatgtcaaga	caatggtcac	taagaattta	acggaaaat	acagtgttat	gatgttttca	3720
256	gagctatggaa	gctgatcatat	tttagaaatgc	atttcaatggaa	agctactcgta	ccctggaaatc	3780
258	tttgactata	gtgtcaatcc	ccaaaccacg	ttcccttccca	agacgcctt	gtatgtctgg	3840
260	ttcttagtgc	aatctgtatgc	ctcggttcaat	tgcttaccc	atactcttgc	tggttggat	3900
262	tcgttctacc	cggttcccg	atggatttct	tattgtatgt	cccggtatgt	ttggaaaagag	3960
264	catgttccct	atagacttcg	tgatcttgc	ttatggaaat	gaaaccttgg	atccatataat	4020
266	ctttgggaga	tccttcttgc	acactgtgg	agcaatcatc	gtatgttc	aaggcaggat	4080
268	agggttggat	gttggcaatc	tttactatgc	gttcaatatg	aacacttttgc	tcagaaaacg	4140
270	gatcatagaa	ggggaaaacct	tcttgataga	ttctttact	tcatcagatc	cagatgtat	4200
272	ttcagatgtat	gaattttagaa	accactaaga	gctgttttgc	gtctcttcc	taggtatag	4260
274	tgcagatgtt	gacagtgtaa	cttctacata	tactaaatgc	caagatgtat	ccgaacatgt	4320
276	gtatcaactt	acggttggaa	aaatcttc	atctgtatgt	ccaaacccgc	cttataatc	4380
278	agattttggat	ccaccaaaagg	ctccctcaat	cgatttggaa	ccacttcc	cagggtcaatg	4440
280	gtatcgatttt	cttgggtttat	atctacttca	tcatgtatgt	gtgtatgtt	tcctttatcc	4500
282	ccggatgtcc	acccattttgc	taaagcaatc	gctgtttatc	cgcaaaatgt	tttggatccat	4560
284	tcttgatgtac	atttgcaggta	tatctccaga	tgtatgtatc	cataggattc	accttggat	4620
286	tgatgtcaatg	tcttcgttgc	acatcgatgt	aggctgtatc	cgaatctgtat	agaagtgggt	4680
288	aagaagaaatg	ttatgtatgt	gttggaaatgc	gggttattat	atccgttcc	agatagcgt	4740
290	tgggtttagtc	catgtttagat	atgttccat	aaaggatgtt	tttggaaatgc	ggattatctca	4800
292	ttcgtatctt	gtttagtgc	ttaacatctt	catagaggat	tgtatgtat	cttcacacag	4860

RAW SEQUENCE LISTING
PATENT APPLICATION: US 09/474,435

DATE: 04/18/2000
TIME: 13:41:23

Input Set: C:\CRF3\Datashold\09474435

→ (2207) same error

Please
correct the
error in
subsequent
sequences

RAW SEQUENCE LISTING DATE: 04/18/2000
PATENT APPLICATION: US 09/474,435 TIME: 13:41:23

Input Set: C:\CRF3\Datashold\09474435

387	accacataaa	tagttacaca	aaagaattta	gagttagttt	tgtgttaaaag	atacgacata	120
389	acatttttt	aatgacattt	cagggaaatgg	cattactgac	actatcaga	tcgcgtacccg	180
391	gacttaaacc	accggaaatgt	tcgcggctta	atgttgaaaa	ctgtggaaaa	gcttcgtgtt	240
393	tagcttagc	ggttatcttc	ggacgttat	acacataggc	aatccgttaca	ggcgttacaa	300
395	aaccgaacat	tttacaataa	gggtctgtac	aattcgatga	atttgaccctt	aaggacaaga	360
397	ttcataaaca	tttccatcttc	aattgggtga	tgtttagtat	cttcttgggt	actttttttg	420
399	ctacaactgt	tcttgcattt	gttcaagata	atgttggtt	ggccatagggt	tatgggtttt	480
401	caactttttgg	acttgcattt	tccatattttca	tattttttgtt	ggaaacttgg	ttatccatggc	540
403	ataaaactccc	aatgggaagc	ccattccaca	agatggctag	agtcatctgt	gtttacttta	600
405	gcaaaaggccg	cgagccgtat	tcgagtgtt	cgacggctt	ctatgagttt	tcacccatgg	660
407	aatatgtcgt	caaaagggtt	tcccaatcc	atttctactt	aatgtcaagg	taatgtaaacg	720
409	ttcgattttg	ttcggttctag	ttaataattt	tttagatattt	gtgcattttt	gtttaaaataac	780
411	catatgtacc	taaaggatttt	ctgtgttaca	gattttttaa	tcgagcttca	ctcaaaaccg	840
413	gatcaaccca	taatgggggg	ctctgtacta	tcacagaaat	ggaaagaaaca	aaacagatgc	900
415	taaaaatgtt	acctgtctc	ttcgtaacat	tcgtccaaag	catgtatgtt	gtcttacaaa	960
417	tgactctgtt	catcaacaaac	ggaacgacc	tcgacggctt	tccacacaaac	aacttcgtat	1020
419	tcccacccgc	aagtctctta	ggcttcacaa	catttctcaat	gtcgctctt	atagtcatat	1080
421	acgcggctgt	ctttgttaag	ttcatgagaa	aactaaccgg	aaacccaaaga	gttatcacat	1140
423	tgcttcagcg	aatggggaa	ggtagtgc	ttcacatctt	aatcatatgc	atccgttca	1200
425	taacccaaacg	gtataggctc	aaggctgtt	ctgaacaccg	gtcaaccacc	caacccgtgt	1260
427	taccaattcc	tttgagcatt	ttcacattgc	ttccacagta	tgtactaatg	ggtttggctg	1320
429	atgtttttat	agaaaaatgc	aagctgggt	tttttttacga	tcaagcacca	gagagttatg	1380
431	aaaggcttgg	gacatcat	acgcacaaa	gtatggcagt	cggttattt	atgagcagcg	1440
433	tgttgttttc	atctatgtct	cagataacaa	agaaggcagg	aaaggatgtt	atttttttttt	1500
435	acttgaacga	gtcttaggtt	gataactatt	acatgttctt	cgcggtactt	aattttgttt	1560
437	acttcatect	ctttttgggtt	gttaatttannn	nnnnnnnnnn	nnnnnnntgt	gttacgtca	1620
439	cagcaaacgt	agaacagaaaa	gaaacaaaata	tggtagataa	caacaatgtt	taagaaatgt	1680
441	catttagttt	tttttttttt	gtataaaaaat	gtatggatttt	gaaccaatata	aggcaaggctt	1740
443	taaatccact	tacaaatcat	aatcatacac	tgctattttt	attttttttt	gttcaactaa	1800
445	ataatgtttt	ctcaatcaga	cacttgagaa	acactaaaga	ttgttcttgc	gagttcatca	1860
447	cata						1864
450	<210>	SEQ ID NO: 6					
451	<211>	LENGTH: 3335					
452	<212>	TYPE: DNA					
453	<213>	ORGANISM: Arabidopsis thaliana landsberg					
455	<400>	SEQUENCE: 6					
457	ctataaggt	aattttataga	atgagtcttc	atcaactgaat	gtgttatcac	tccatatgtct	60
459	tataataata	taatcttgtt	taatttaataa	tgcagactt	tccatataaa	cttggatag	120
461	gatgcattcc	actgtatgc	gtgttgagaa	tagcggaaaa	gatattttca	gagcttccaa	180
463	atctcatca	gaatttcgtt	aaggctggct	tcgccttttc	atgtgcata	aaacgttata	240
465	acaaaacatcc	tttactcaag	gccattccctt	cttcccatga	tatcaaatgg	ggtcttgc	300
467	ggttcttta	cctcttcaat	actcgatgtt	agaagaaactt	tggcacgtac	gtccctttaac	360
469	cccaatgtt	tttcgttgcgtt	ttaacgatgtt	tagctttttt	caggcatgtt	actatataat	420
471	acatccgttc	tgtatcaattt	ctatggctat	tgtatggat	tttttttttt	ctcgatataa	480
473	tgcttttgcgt	ttgttatcat	tggaggactt	ttttttttca	aattttttttt	acttagctat	540
475	gtttaaagaac	ttttttgtat	atccatgtca	tggtttttttca	tttttttttttcc	cctcccttctt	600
477	gttggaaagg	aaagacacat	cttttagaa	ctgccttctgg	ggggcttggg	catggctctgt	660
479	taacccgtat	actatctttt	aggtcatgtt	ttgtttttttt	acagacaaac	tatattttttt	720

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US 09/474,435

DATE: 04/18/2000

TIME: 13:41:24

Input Set: C:\CRF3\Datahold\09474435

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:43 M:283 W: Missing Blank Line separator, <400> field identifier
L:45 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:45 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:45 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:45 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:47 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:47 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:47 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
M:340 Repeated in SeqNo=1
L:63 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:63 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:63 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:104 M:283 W: Missing Blank Line separator, <400> field identifier
L:116 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:116 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:116 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:116 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:118 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:118 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:118 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
M:340 Repeated in SeqNo=3
L:120 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:120 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:120 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:383 M:283 W: Missing Blank Line separator, <400> field identifier
L:437 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:437 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:437 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:437 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5
L:576 M:283 W: Missing Blank Line separator, <400> field identifier
L:752 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7
L:752 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:752 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:752 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:1047 M:283 W: Missing Blank Line separator, <400> field identifier
L:1181 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:1181 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:1181 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:1181 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:1514 M:283 W: Missing Blank Line separator, <400> field identifier
L:1544 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:1544 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14
L:1544 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
L:1544 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14

VERIFICATION SUMMARY
PATENT APPLICATION: US 09/474,435

DATE: 04/18/2000
TIME: 13:41:24

Input Set: C:\CRF3\Datahold\09474435

L:1623 M:283 W: Missing Blank Line separator, <400> field identifier
L:1657 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:16
L:1657 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:16
L:1657 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:16
L:1657 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
L:2310 M:283 W: Missing Blank Line separator, <400> field identifier
L:2318 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25
L:2318 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:2318 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
L:2318 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:25
L:2399 M:283 W: Missing Blank Line separator, <400> field identifier
L:2429 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:27
L:2429 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:27
L:2429 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:27
L:2429 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:27
L:2754 M:283 W: Missing Blank Line separator, <400> field identifier
L:2770 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:32
L:2770 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:32
L:2770 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:32
L:2770 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32
L:2772 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:32
L:2772 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:32
L:2772 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:32
M:340 Repeated in SeqNo=32
L:3447 M:283 W: Missing Blank Line separator, <400> field identifier
L:3533 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:46
L:3533 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:46
L:3533 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:46
L:3533 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46
L:3720 M:283 W: Missing Blank Line separator, <400> field identifier
L:3904 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:50
L:3904 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:50
L:3904 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:50
L:4171 M:283 W: Missing Blank Line separator, <400> field identifier
L:4181 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:55
L:5198 M:283 W: Missing Blank Line separator, <400> field identifier
L:5200 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:63
M:340 Repeated in SeqNo=63
L:5331 M:283 W: Missing Blank Line separator, <400> field identifier
L:5369 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:66
L:5594 M:283 W: Missing Blank Line separator, <400> field identifier
L:5610 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:71
L:6105 M:283 W: Missing Blank Line separator, <400> field identifier
L:6147 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:75
L:6806 M:283 W: Missing Blank Line separator, <400> field identifier
L:6834 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:81
L:6969 M:283 W: Missing Blank Line separator, <400> field identifier
L:6971 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:85

VERIFICATION SUMMARY
 PATENT APPLICATION: US 09/474,435

DATE: 04/18/2000
 TIME: 13:41:24

Input Set: C:\CRF3\Datahold\09474435

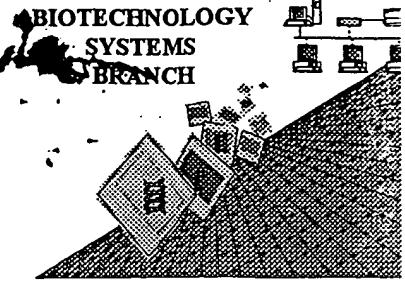
M:340 Repeated in SeqNo=85
 L:7488 M:283 W: Missing Blank Line separator, <400> field identifier
 L:7646 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:92
 L:7685 M:283 W: Missing Blank Line separator, <400> field identifier
 L:7733 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:93
 L:8070 M:283 W: Missing Blank Line separator, <400> field identifier
 L:8162 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:95
 M:340 Repeated in SeqNo=95
 L:8745 M:283 W: Missing Blank Line separator, <400> field identifier
 L:8859 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101
 M:340 Repeated in SeqNo=101
 L:8874 M:283 W: Missing Blank Line separator, <400> field identifier
 L:8890 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:102
 M:340 Repeated in SeqNo=102
 L:8905 M:283 W: Missing Blank Line separator, <400> field identifier
 L:9067 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:103
 L:9262 M:283 W: Missing Blank Line separator, <400> field identifier
 L:9484 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:106
 M:340 Repeated in SeqNo=106
 L:9585 M:283 W: Missing Blank Line separator, <400> field identifier
 L:9593 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:109
 M:340 Repeated in SeqNo=109
 L:10042 M:283 W: Missing Blank Line separator, <400> field identifier
 L:10380 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:117
 L:11261 M:283 W: Missing Blank Line separator, <400> field identifier
 L:11437 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:125
 M:340 Repeated in SeqNo=125
 L:11630 M:283 W: Missing Blank Line separator, <400> field identifier
 L:11762 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:127
 M:340 Repeated in SeqNo=127
 L:11879 M:283 W: Missing Blank Line separator, <400> field identifier
 L:12135 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:128
 M:340 Repeated in SeqNo=128
 L:13088 M:283 W: Missing Blank Line separator, <400> field identifier
 L:13244 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:133
 M:340 Repeated in SeqNo=133
 L:14905 M:283 W: Missing Blank Line separator, <400> field identifier
 L:14971 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:155
 M:340 Repeated in SeqNo=155
 L:15050 M:283 W: Missing Blank Line separator, <400> field identifier
 L:15068 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:156
 M:340 Repeated in SeqNo=156
 L:15129 M:283 W: Missing Blank Line separator, <400> field identifier
 L:15504 M:283 W: ~~Missing Blank Line separator, <400> field identifier~~
 L:15583 M:283 W: ~~Missing Blank Line separator, <400> field identifier~~
 L:15982 M:283 W: ~~Missing Blank Line separator, <400> field identifier~~
 L:16531 M:283 W: ~~Missing Blank Line separator, <400> field identifier~~
 L:16778 M:283 W: ~~Missing Blank Line separator, <400> field identifier~~

Ignore

OS

RAW SEQUENCE LISTING

ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/474,435

J

Art Unit / Team No.:

01PE

Date Processed by STIC:

4/19/2000

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212